BRUHAT BANGALORE MAHANAGARA PALIKE, YELAHANKA ZONE

Executive Engineeer

Byatarayanapura Division

Bruhat Bengaluru Mahanagara Palike

DRAFT TENDER SCHEDULE

Issued to :

Original / Duplicate

Name of Work: Construction of Additional floors and Maintenance of existing buildng to Samudayana Bhavana at A K Colony in ward no. 11 Kodigehalli.

Sl. No.	Quantity.	Description	Unit	Rates	
				In Figures	In Words
1	213.33	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. In ordinary/soft rock without blasting upto 1.5 m depth	Cum	328.90	Rupees Three Hundred Twenty Eight and Ninety Paise Only
2	0.94	Providing and laying in position plain cement concrete Mix 1:4:8(M5) Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.	Cum	6230.40	Rupees Six Thousand Two Hundred Thirty and Forty Paise Only
3	20.92	Providing and laying in position Cement Concrete for all Foundation works.The granite/trap/basalt crushed graded coarse aggregates and fine aggregatesas per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, costof all materials, quality confirming to the requirements of relevant IS codes,labour, Usage charges of machinery, curing and all the other appurtenancesrequired to complete the work as per technical specifications.. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates)	Cum	6969.60	Rupees Six Thousand Nine Hundred Sixty Nine and Sixty Paise Only
4	2438.05	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification	Kg	98.40	Rupees Ninety Eight and Forty Paise Only
5	0.86	Formwork , Centering for Columns 70% on Finished Concrete Item	Cum	5068.80	Rupees Five Thousand Sixty Eight and Eighty Paise Only

Sl. No.	Quantity.	Description	Unit	Rates	
				In Figures	In Words
6	7.33	Formwork , Centering for Lintel & Beams 60% on Finished Concrete	Cum	4435.20	Rupees Four Thousand Four Hundred Thirty Five and Twenty Paise Only
7	8.68	Formwork , Centering for Roof 70% on Finished Concrete	Cum	5068.80	Rupees Five Thousand Sixty Eight and Eighty Paise Only
8	0.45	Formwork , Centering for Chejja 45% on Finished Concrete	Cum	3484.80	Rupees Three Thousand Four Hundred Eighty Four and Eighty Paise Only
9	1.58	Formwork , Centering for Staircase 50% on Finished Concrete	Cum	3231.36	Rupees Three Thousand Two Hundred Thirty One and Thirty Six Paise Only
10	174.49	Providing & constructing load bearing wall with Solid Concrete blocks of size 400x200x200 mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm	1441.00	Rupees One Thousand Four Hundred Forty One Only
11	26.82	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm	1354.10	Rupees One Thousand Three Hundred Fifty Four and Ten Paise Only
12	237.60	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.	Kg	184.80	Rupees One Hundred Eighty Four and Eighty Paise Only
13	7.92	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 8 mm thickness (weight not less than 20 kg/ m^2) including cost of materials, labour, usage charges of machinery complete as per specifications	Sqm	1435.50	Rupees One Thousand Four Hundred Thirty Five and Fifty Paise Only
14	0.16	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications.	Cum	151881.40	Rupees One Hundred Fifty One Thousand Eight Hundred Eighty One and Forty Paise Only
15	2.52	Providing and fixing in position fully panelled Honne wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures)	Sqm	8188.40	Rupees Eight Thousand One Hundred Eighty Eight and Forty Paise Only

Sl. No.	Quantity.	Description	Unit	Rates	
				In Figures	In Words
16	2.10	Providing and fixing 1 mm thick M.S. sheet sliding-shutters, with frame and diagonal braces of 40x40x6 mm angle iron, 3 mm M.S. gusset plates at the junctions and corners, 25 mm dia pulley, 40x40x6 mm angle and T-iron guide at the top and bottom respectively, including applying a priming coat of approved steel primer including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.	Sqm	5743.10	Rupees Five Thousand Seven Hundred Forty Three and Ten Paise Only
17	6.00	Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge.	Mtr	349.80	Rupees Three Hundred Forty Nine and Eighty Paise Only
18	2.10	Providing & fixing 30mm thick factory made rigid foam Prelam Panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for stiles and 15x15mm for top & bottom rails, covered with heat moulded Prelaminated PVC C Channel of 5mm thick sheet & 30x50mm wide to form stiles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S. frame, Sealed to the stiles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification &direction of Engineer-in-charge fixed to frames with 3 nos of 75mm Aluminium hinges.	Sqm	2602.60	Rupees Two Thousand Six Hundred Two and Sixty Paise Only
19	233.11	Providing 20 mm cement plaster of mix 1:4 (1 cement: 4 fine sand) to brick/stone masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per direc- tions of Engineer-in-charge.	Sqm	389.40	Rupees Three Hundred Eighty Nine and Forty Paise Only
20	281.35	Providing 15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix: 1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	383.90	Rupees Three Hundred Eighty Three and Ninety Paise Only
21	62.24	Providing 12 mm cement plaster with Cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer- in-charge.	Sqm	355.30	Rupees Three Hundred Fifty Five and Thirty Paise Only

Sl. No.	Quantity.	Description	Unit	Rates	
				In Figures	In Words
22	57.85	Providing and laying Vitrified tiles with thickness 9-10 mm in different sizes with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joint with white cement & matching pigments etc. complete.	Sqm	1292.50	Rupees One Thousand Two Hundred Ninety Two and Fifty Paise Only
23	8.64	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including pointing the joints with white cement and matching pigments etc., complete.	Sqm	1086.76	Rupees One Thousand Eighty Six and Seventy Six Paise Only
24	50.40	Providing skirting, dadooing, rises of steps with colour glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.	Sqm	1593.90	Rupees One Thousand Five Hundred Ninety Three and Ninety Paise Only
25	10.40	Providing and laying flooring and steps fine dressed granite stone slabs 40 mm thick on cement mortar bed 1:6, 20 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed , including cost of materials, mortar, labour, curing complete as per specifications.	Sqm	4736.60	Rupees Four Thousand Seven Hundred Thirty Six and Sixty Paise Only
26	233.11	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two coats applied @ 1.43 ltr/10 m^2 over and including priming coat of exterior primer applied @ 2.20 kg/10 m^2) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	195.80	Rupees One Hundred Ninety Five and Eighty Paise Only
27	343.59	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :New work (two coats) over and including water thinnable priming coat with cement primer after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	150.70	Rupees One Hundred Fifty and Seventy Paise Only
28	50.10	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Two coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	183.70	Rupees One Hundred Eighty Three and Seventy Paise Only

Sl. No	Quantity.	Description	Unit	Rates	
				In Figures	In Words
29	81.00	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. E.R.W. tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineerin- Charge.	Sqm	151.80	Rupees One Hundred Fifty One and Eighty Paise Only
30	57.85	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU wate proofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6 kg/m2 to achieve final DFT (Dry Film Thickness) of 1mm including prime coat of epoxy primer @150 g/m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification.	Sqm	898.70	Rupees Eight Hundred Ninety Eight and Seventy Paise Only
31	8.68	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications.	Sqm	6867.30	Rupees Six Thousand Eight Hundred Sixty Seven and Thirty Paise Only
32	190.80	Providing and laying 100mm thick pre-cast cover slabs over drains &Rain pit of width not exceeding 800 mm using M20 concrete reinforcedwith Micro Alloyed High carbon steel with 3mm - 3ply wired steel @ 2.00 kg/m2, slabs jointed in CM 1:3 proportion and nicely finished Includingproviding holes in the Cover slabs wherever necessary for easy drainageof surface water including of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete.	Sqm	1020.80	Rupees One Thousand Twenty and Eighty Paise Only
33	213.33	Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3)	Cum	148.50	Rupees One Hundred Forty Eight and Fifty Paise Only
34	273.06	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km	T. Km	105.60	Rupees One Hundred Five and Sixty Paise Only
35	80.00	Supplying heavy gauge PVC conduit pipe ..... dia ..... mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc , and fixing using inverted wood plugs in case of RCC ceiling and RCC wall/ stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.	M	89.10	Rupees Eighty Nine and Ten Paise Only

Sl. No.	Quantity.	Description	Unit	Rates	
				In Figures	In Words
36	80.00	Supplying heavy gauge PVC Conduit Pipe .... dia ..... mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering upto the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.	M	85.80	Rupees Eighty Five and Eighty Paise Only
37	25.00	Supplying and fixing PVC/metal conduit Deep junction box 25 mm deep Junction box.	Each	61.60	Rupees Sixty One and Sixty Paise Only
38	25.00	Supplying And Fixing Metal Fan Box with Round Hook	Each	128.70	Rupees One Hundred Twenty Eight and Seventy Paise Only
39	50.00	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet .Long point above 6Mtr upto 10Mtr from tapping point to out let via switch	Each	957.00	Rupees Nine Hundred Fifty Seven Only
40	50.00	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS- 694:2010 1.5MM2	M	28.60	Rupees Twenty Eight and Sixty Paise Only
41	12.00	Supplying 6A flush type socket and 6 A flush type SP switch either surface/flush mounting in existing gang box or in 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required as per IS 1293 and IS 38546A 3/5 Way	Each	161.70	Rupees One Hundred Sixty One and Seventy Paise Only
42	8.00	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 10-12 Way	Each	350.90	Rupees Three Hundred Fifty and Ninety Paise Only
43	2000.00	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc, and fixing on existing wooden or metal box using N.F. screws	Sq. Cm	0.45	and Forty Five Paise Only
44	15.00	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293Stepped Fan Regulator Two Module	Each	392.70	Rupees Three Hundred Ninety Two and Seventy Paise Only
45	15.00	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.. -6A One Way Switch.	Each	198.00	Rupees One Hundred Ninety Eight Only

Sl. No	Quantity.	Description	Unit	Rates	
				In Figures	In Words
46	18.00	Supply of round/square recess/surface mounted rolling type LED Down light with ..... W GU 10 LED Lamp Rib Fabricated from diecast aluminium with white powder coated prewired to mains connector & has swivelling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @50/60Hz & Power factor >0.9 along with CE approved. 2years Warranty against any manufacturing defect working under standard electrical condition LED square or round down light 15-18W	18	1838.10	Rupees One Thousand Eight Hundred Thirty Eight and Ten Paise Only
47	10.00	Supplying of Ceiling Fan with Capacitor rating As per guideline of BEE 5 star rating and IS:374/19 and also comply with IS: 1709/1984 with latest amendment, Rated voltage 220 V/50 Hz, Rated power upto 35 W +/- 10 %, Rated current As per IS:374/19, Rated power factor 0.9 lagging(min), Rated speed 350 +/- 10% RPM, Rated air delivery 210 +/- 10% Cubic Meter Minimum, Rated service value 6.2 CMM / W, Three Blades of blade leaf 1.05 mm thick Aluminium Alloy sheet, Class B motor insulation, Bearing Two ball bearings, Top 6202, Bottom 6201, as per IS specification, Motor winding. Temp rise Shall not exceed 75 deg C over and ambient of 40 0C by resistance method at 245 V, Insulation resistance Shall not be less than Two Mega Ohms (2M Ohms), Leakage current Should not exceed 210 Micro Amp, Power input, W& current, Air Delivery & Fan Speed as per IS:374/2019 with latest amendment, 2year manufacturer Warranty. (BLDC fans) 56" Sweep 5 Star (1400 mm)	Each	4129.40	Rupees Four Thousand One Hundred Twenty Nine and Forty Paise Only
48	25.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall. 15 mm nominal dia pipes	Each	339.90	Rupees Three Hundred Thirty Nine and Ninety Paise Only
49	25.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall. 32 mm nominal dia pipes	Each	612.70	Rupees Six Hundred Twelve and Seventy Paise Only
50	2.00	Providing and fixing white vitreous china pedestal type water closetb (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required, W.C. pan with ISI marked white solid plastic seat and lid	Each	5321.80	Rupees Five Thousand Three Hundred Twenty One and Eighty Paise Only

Sl. No.	Quantity.	Description	Unit	Rates	
				In Figures	In Words
51	20.00	Providing and installing at site of work P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour charges and all lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete.90mm(weight of pipe -0.917 kg)	Each	231.00	Rupees Two Hundred Thirty One Only
52	2.00	Providing and fixing white vitreous china wash basin including making all connections but including the cost of fittings	Each	1800.70	Rupees One Thousand Eight Hundred and Seventy Paise Only
53	4000.00	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	Ltr	9.90	Rupees Nine and Ninety Paise Only

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Executive Engineer
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Note:

1 Item for which no rate or price has been entered in will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of quantities (refer: ITB Clause 7.2 and CC Clause 33.2)

2 Unit rates and prices shall be quoted by the Tender in Indian rupees.

3 Where there is a discrepancy between the rate in figures and words the rates in words will govern (ITB Clause 19.1(a)

4 Where there is a discrepancy between the unit rate and the line item total resulting from multyplying the unit rate by quantity the unit rate quoted shall govern (ITB Clause 19.1(b))